

Universal Decimal Classification —

Second English full edition —
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UDC 63/632 Agriculture in general —
Forestry — Plant injuries, diseases and
pests — Plant protection

UDC 025.45:63/632

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National Farmers' Union	

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Contents

	Page
Cooperating organizations	Inside front cover
Foreword	ii
Scope	1
Principal divisions of UDC 63	1
Related subjects	1
Auxiliary signs and subdivisions	2
Typographic presentation	2
Schedule	
630 Forestry	3
630*1 Factors of the environment. Forest biology	3
630*2 Silviculture	3
630*3 Work science (work studies). Harvesting of wood. Logging and transport. Forest engineering	4
630*4 Forest injuries and protection	4
630*5 Forest mensuration. Increment. Development and structure of stands	4
630*6 Forest management. Business economics of forestry. Administration and organization of forest enterprises	4
630*7 Marketing of forest products. Economics of forest transport and the wood industries	5
630*8 Forest products and their utilization	5
630*9 Forests and forestry from the national point of view (forest policy). Social economics of forestry	6
631/635 Farm management. Agronomy. Horticulture	7
631 Agriculture in general	7
631.1 Farm management and organization	7
631.2 Farm buildings, structures and installations. Buildings for livestock, agricultural products, machinery and equipment	9
631.3 Agricultural machines, implements and equipment	11
631.4 Soil science. Soil research	18
631.5 Agricultural operations	21
631.6 Rural engineering. Land reclamation. Drainage. Irrigation	24
631.8 Fertilizers and manures. Growth substances	25
632 Plant damage. Plant injuries. Plant diseases. Plant pests. Plant protection	28
632.1 Non-parasitic diseases. Diseases of complex origin	28
632.2 Symptomatology	28
632.3 Bacterial and virus diseases of plants	28
632.4 Fungal diseases of plants. Mycology	28
632.5 Injurious plants	29
632.6 Plant pests (other than insects)	29
632.7 Insect pests. Insecta	29
632.8 Other plant injuries. Injuries due to unknown causes	29
632.9 Control of plant diseases and pests	29
Alphabetical subject index	31
Related BSI publications	Inside back cover

Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The English full edition of the UDC is authorized by the International Federation for Documentation (FID), PO Box 30115, 2500 GC, The Hague, Netherlands.

This section is part of the English full edition. It should be used in conjunction with the Abridged English Edition, BS 1000A, which refers to many other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of BS 1000[63/632], which supersedes BS 1000[631/632]:1970, includes modifications authorized in “Extensions and Corrections to the UDC” (FID publication no. 248) up to and including Series 10, No. 3, dated June 1980. Subsequent issues of “Extensions and Corrections to the UDC” should be consulted to keep the schedule up to date. British Standards related to this Part of BS 1000 are listed on the inside back cover.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 62, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Scope

1. *Scope of UDC 63.* Under 63 is classed information about agriculture in the broadest sense, including farming, horticulture, animal breeding, forestry, hunting and fishing.

2. *Scope of UDC 630.* Under 630 is classed information about forestry.

NOTE Forestry was previously classed under 634.0; efforts are being made at present to have forestry relocated within 634.

3. *Scope of UDC 631.* Under 631 is classed information about agriculture in general, including farm management, agricultural buildings and equipment, soil science and research, agricultural operations, rural engineering, and fertilizers and manures.

4. *Scope of UDC 632.* Under 632 is classed information about plant damage, injuries, diseases and pests, and plant protection.

Principal divisions of UDC 63

630	Forestry
631	Agriculture in general
632	Plant damage. Plant injuries. Plant diseases. Plant pests. Plant protection
633	Field crops and their production
634	Horticulture generally
635	Garden plants. Gardening
636	Animal breeding in general. Breeding of mammals and birds. Livestock rearing. Breeding of domestic animals
637	Produce of domestic animals and game
638	Keeping, breeding and management of insects and other arthropods
639	Hunting. Fishing. Fish breeding

Related subjects

339.175	Market areas. Market halls
343.58	Cruelty to animals
343.711.1	Theft of field crops
343.711.2	Theft of domestic and other animals
343.771	Infringement of hunting rights. Animal poaching
343.772	Infringement of fishing rights. Fish poaching
343.773	Infringement of forestry rights
347.243	Private rights relating to agriculture and rural property
347.257	Champart. Right to tithes
347.453.1	Leasing of rural property. Farming leases etc.
347.453.2	Leasing of animals

351.823.1	Agriculture. Produce of the soil. Rearing of domestic animals. Dairy produce. Hunting. Fishing — Public administration
368.5	Agricultural insurance
373.68	Agricultural training
378.663	Agricultural colleges, schools and teaching institutes
502.7	Wildlife conservation and protection
55	Geology. Meteorology. Hydrology
551.34	Effects of frost on rocks and soils. Cryoturbation. Frozen soils. Permafrost
551.4	Geomorphology
551.5	Meteorology
58	Botany
581.6	Applied botany. Use of plants. Technobotany. Economic botany
59	Zoology
591.6	Economic zoology. Applied zoology
614.31	Inspection of food inspection of shops, markets etc.
614.7	Hygiene of the air, water and soil
614.9	Animal hygiene. Veterinary hygiene
619	Diseases of (domesticated) animals. Veterinary science
626.8	Agricultural hydraulics. Irrigation engineering. Land reclamation engineering. Land drainage engineering
663	Technical microbiology. Technical mycology. Industrial fermentation. Beverages. Stimulants
664	Manufacture and preservation of solid foods
665.2	Oils, fats and waxes of animal origin
665.3	Vegetable oils, fats, waxes and phosphatides
665.52/.54	Essential oils
665.94	Gums. Resins. Gum resins. Oleoresins. Mucilages. Resinous plant products
674	Timber and woodworking industry
675	Leather industry. Processing of animal skins
677	Textile industry
682.1	Farriery. Shoe-smithing
685.1	Saddlery. Harness-making
69	Building
711.14	Land use
712	Planning of landscapes, natural and designed. Parks. Gardens
719	Preservation of rural and urban amenities generally. National trusts and similar movements
72	Architecture
798	Equine sports. Horsemanship. Horse racing. Other animal sports
799	Hunting. Shooting. Fishing

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to “common and special auxiliaries”) will be found in BS 1000A and BS 1000C.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combination rather than of common or special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information. This usually results in longer notation, however, and for information for more restricted use, the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time “. . . ”, point of view .00 . . . materials – 03 . . . and persons –05 . . . are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Special auxiliaries. The –1/–9 special auxiliaries listed under 62 are applicable throughout 63 (with the exception of –1 and –2 which may not be used within 633/635). The .0 special auxiliaries listed under various subdivisions of 63 may be detached from the number under which they are listed and applied to any subdivision of that number where the result forms a meaningful combination e.g.

631.352.022	Cutting mechanisms
631.352.93	Lawn mowers
631.352.93.022	Lawn mower cutting mechanisms

Typographic presentation

Small type is used for cancelled numbers and text. The arrow → means either “see” or “see also” according to the context. The symbol ≅ “subdivide as” means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

SCHEDULE

**63 Agriculture and related sciences and techniques
forestry. Farming. Wildlife exploitation****Principal divisions****630 FORESTRY**

	<i>The subdivisions given below are only examples taken from the Oxford System of Decimal Classification for Forestry published for the International Union of Forestry Research Organizations (IUFRO) by the Commonwealth Agricultural Bureaux, Farnham Royal, England, in 1953</i>	630*226	Changes of silviculture system. Conversion (by system or species)
		630*228	Constitution and composition of stands. Forms of stand
		630*23	REGENERATION AND FORMATION OF STANDS
630*1	FACTORS OF THE ENVIRONMENT.	630*231	Natural regeneration
	FOREST BIOLOGY	630*232	Artificial regeneration
630*11	Site factors. Climate. Situation. Soil. Hydrology (water conservation, soil conservation and erosion)	.3	Seed. Nursery practice. Direct sowing →631.53 Plant propagation
	→55 Geology. Meteorology. Geophysics	.4	Formation of stands by planting. Planting stock. Methods of planting →631.54 Tending the growing plant
	631.4 Soil science. Soil research	.5	Artificial formation of stands by vegetative propagation, e.g. direct planting of unrooted cuttings
630*111	The atmosphere. Meteorology. Climate and microclimate		Afforestation (of particular types of land) →630*91 Land use. Land-use policy. Afforestation policy
	→551.5 Meteorology	630*233	Formation of forest by natural succession
	630*42 Injuries from inorganic agencies (excluding fire)	630*234	Underplanting. Advance planting etc. Nurses.
630*113	Situation. Longitude and latitude. Gradient and aspect. Topography	630*235	Formation of mixtures
	→551.4 Geomorphology. Study of the Earth's physical form	630*236	Care of regeneration or plantations in the initial stages of establishment
630*114	Soil. Soil science	630*237	Amelioration of forest sites →631.6 Rural engineering
	→631.4 Soil science. Soil research	630*238	Timber plantation crops requiring special treatment, e.g. poplar plantations, rootwood of <i>Erica arborea</i>
630*116	Hydrology. Water conservation, soil conservation and erosion		TENDING OF STANDS AND TREES
	→556 Hydrosphere. Water in general. General hydrology	630*24	Cleanings
630*12	General biology	630*241	Thinnings
	→57 Biological sciences	630*242	Opening of the canopy (increment fellings, overhead release, improvement fellings)
630*13	General zoology	630*243	Climber cutting etc.
	→59 Zoology	630*244	Tending of trees
630*14	Systematic zoology		→631.542 Pruning. Crown thinning
	→592/599 Systematic zoology	630*25	TREATMENT OF DEFECTIVE, DERELICT OR VERY OPEN STANDS
630*15	Animal ecology. Game and fish management. Hunting. Shooting. Fishing	630*26	COMBINATIONS OF FORESTRY WITH AGRICULTURE AND PASTORAL HUSBANDRY. IRRIGATED AND FLOODLAND FORESTS. SHELTERBELTS ETC. AND THEIR TREATMENT
	→591.5 Habits. Ecology. Ethology. Bionomy — Zoology	630*261	Alternate forestry and agriculture. Periodic or temporary agricultural use of forest land
	639 Hunting. Fishing. Fish breeding	630*262	Fuel and fodder forests
630*16	General botany	630*263	Irrigated forests
	→581 General botany	630*265	Strips or lines at road, rail and canal sides etc.
630*17	Systematic botany	630*266	Hedgerow trees
	→582 Systematic botany		Shelterbelts. Windbreaks
630*18	Plant ecology	630*27	ARBORETA. ARBORICULTURE FOR ORNAMENTAL PURPOSES. PARKS. HEDGES. HEDGE PLANTS
-	- →581.5 Habits of plants. Ecology. Ethology. The plant and its environment		→712 Planning of landscape, natural and designed. Parks. Gardens
630*2	SILVICULTURE	630*28	HUSBANDRY (GROWING AND COLLECTION) OF FOREST PRODUCTS OTHER THAN WOOD
630*22	SILVICULTURAL SYSTEMS. CONSTITUTION AND COMPOSITION OF STANDS. FORMS OF STAND		
630*221	High forest systems		
.1	Clear-felling system		
.2	Systems of successive generation fellings		
.4	Selection systems		
.5	Accessory systems		
.6	Continuous forest		
630*222	Coppice, pollarding and lopping systems		

630*281	Christmas trees →688.767 Christmas trees — Decorative articles	630*41	General technique of forest protection. Types of injury
630*282	Bark crops	630*411	Natural and biological control
630*283	Fruit crops. Seed crops <i>For fruit growing → 634.11.8</i>	630*412	Silvicultural control
630*284	Crops tapped for exudations →633.9 Other industrial plants	630*413	Physical and mechanical control
630*285	Leaf crops →630*262 Fuel and fodder forests	630*414	Chemical control
630*286	Osier-growing	630*416	Types of injury
630*287	Bamboo-growing. Cane-growing	630*42	Injuries from inorganic agencies (excluding fire)
630*288	Crops grown for animal products, e.g. lac, silkworms	630*421	Air currents. Wind →551.51 Structure, mechanics and thermodynamics of the atmosphere in general. Dynamic meteorology 551.55 Wind and turbulence
630*3.	WORK SCIENCE (WORK STUDIES). HARVESTING OF WOOD. LOGGING AND TRANSPORT. FOREST ENGINEERING	630*422	Temperature influences. Insolation →551.52 Radiation. Temperature
630*30	Work science (work studies): general. <i>For business and industrial organization and management → 658</i>	630*423	Precipitations →551.57 Aqueous vapour and hydrometeors
630*31	Logging and transport: general	630*424	Soil conditions. Erosion effects
630*32	Felling and related operations	630*425	Chemical influences (atmospheric)
630*33	Degree of utilization and waste. Clearing the felling site	630*426	Electrical and cosmic influences
630*34	Storage of wood in the forest and at log dumps (landings) →630*848 Timberyard practice. Handling and storage of timber	630*43	Forest fires →614.841.42 Fires and fire protection in nature
630*35	Performance measurements for determining piece rates in felling and related operations	630*431	Predisposing factors and causes. Fire danger. Fire behaviour
630*36	Tools, machines and equipment for felling and related operations	630*432	Prevention and control →614.841.3 Prevention of fire. Reduction of damage due to fire 614.842 Notification of fires. Alarms. Technique of extinguishing fires. Organization of fire control
630*37	Transport <i>For materials handling equipment → 621.861.87</i>	630*433	Salvage and disposal of fire-damaged timber
630*38	Forest engineering	630*434	Revegetation etc. of burnt areas
630*382	Buildings →69 Building 71 Physical planning 72 Architecture	630*435	Benefits of fire control. Injurious effects of fire
630*383	Roads. Bridges	630*436	Beneficial effects of fire. Uses of fire in silviculture and other forms of husbandry
630*384	Protective works →624.12 Rock engineering and mechanics 624.144 Damage and accidents caused by snow and ice. Precautions, prevention and control	630*44	Damage by harmful plants. Virus diseases →582 Systematic botany
630*385	Drainage. Irrigation. Sedimentation. Water supply →626 General hydraulic engineering. Canal engineering. Agricultural hydraulics 627 Natural waterway, port, harbour and shore engineering etc. 628 Public health engineering	630*441	Forest weeds
630*386	Waterways. Stream training →626 General hydraulic engineering. Canal engineering. Agricultural hydraulics 627 Natural waterway, port, harbour and shore engineering etc.	630*442	Parasitic (higher) plants. Climbers. Epiphytes
630*387	Telephonic communications etc. <i>For telecommunication and electronic devices → 621.371.39</i> <i>For telecommunication and telecontrol organization and services → 654</i>	630*443	Fungi. Bacteria
630*4	FOREST INJURIES AND PROTECTION →632 Plant injuries, diseases and pests. Plant protection. Pest control in general	630*444	Virus diseases
		630*45	Damage by animals →592/599 Systematic zoology
		630*46	Damage to tree growth by man
		630*48	Injuries due to unknown or complex causes (arranged by tree species) →582 Systematic botany
		630*5	FOREST MENSURATION. INCREMENT. DEVELOPMENT AND STRUCTURE OF STANDS
		630*51	Systems and units of measurement (including conversion tables)
		630*52	Measurements of the stem dimensions and volume of trees, stands, forests and timber
		630*53	Special measurements of trees and stands (crown dimensions, stand density etc.)
		630*54	Assessment of site quality
		630*55	Age determination
		630*56	Increment. Development and structure of stands
		630*6	FOREST MANAGEMENT. BUSINESS ECONOMICS OF FORESTRY. ADMINISTRATION AND ORGANIZATION OF FOREST ENTERPRISES →631.16 Farm finances and economic assessment
		630*62	Methods of management. Working plans. Annual or periodic yield. Yield regulation

630*63	Other forestry management questions	630*831	Fuelwood. Various types of rough timber
630*64	Forestry as a business (general)	630*832	Mills, their functions and products →674.093 Sawmills. Sawmilling
630*65	Special business problems of timber-growing	630*833	Timber in buildings and engineering structures (manufacture and use) →691.11 Wood. Timber — Building materials
630*652	Forest valuation		Shingles. Cooperage. Packaging containers (manufacture and use)
630*653	Value increment of the stem. Development and structure of the stand as regards value	630*834	Industrial and domestic (utility) woodware, toys and models, sports and recreational goods, musical instruments, scientific and mathematical instruments, surgical applications etc. (manufacture and use) →674.06 Products of the timber and woodworking industry
630*66	Costing of logging operations	630*835	681 Precision mechanisms and instruments 688.72 Toys
630*67	Assessment of financial results. Bookkeeping and accountancy. Business statistics. Short-term planning and financing	630*836	Furniture-making. Cabinet-making. Ecclesiastical woodwork. Carving. Marquetry. Wooden ornaments →674.23 Furniture-making 684.6 Veneering. Marquetry. Inlay etc.
630*68	Administration and organization of forest enterprises	630*838	Vehicle manufacture →674.3 Cartwrighting and wheelwrighting
630*681	National (federal, state) forest services and administration	630*839	Wood wool. Wood flour. Industrial waste wood, its processing and uses →674.8 Processing of waste material made from wood, cork, peat etc.
630*682	Private forest administration. Staff questions in private forestry	630*84	PRESERVATION AND OTHER TREATMENTS TO IMPROVE THE PROPERTIES OF WOOD. DAMAGE BY BIOLOGICAL AGENCIES AND ITS CONTROL. SEASONING. TIMBERYARD PRACTICE (HANDLING AND STORAGE) →674.04 Seasoning, impregnation and other treatments of wood
630*7	MARKETING OF FOREST PRODUCTS. ECONOMICS OF FOREST TRANSPORT AND THE WOOD INDUSTRIES	630*841	Wood preservation (against injurious plants and animals) →667.6 Coatings and coating techniques. Paints. Varnishes. Lacquers
630*72	The quantitative aspects of marketing. Demand and supply	630*842	Treatments to improve the resistance of wood to physical and chemical agencies
630*73	Prices	630*843	Fireproofing. Fire resistance of treated wood
630*74	Trade policy (other than trade customs and usages)	630*844	Attack by plant organisms →582 Systematic botany
630*75	Trade customs and usages	630*845	Attack by animals →592/599 Systematic zoology
630*76	Accountancy, business planning and administration in marketing	630*846	Steaming →674.046 Boiling. Steam treatment
630*78	Economics of forest transport	630*847	Drying (seasoning) →674.047 Seasoning
630*79	Economics of the forest products industries	630*848	Timberyard practice. Handling and storage of timber →674.093.3/.4 Timberyards in sawmills
630*8	FOREST PRODUCTS AND THEIR UTILIZATION →674 Timber and woodworking industry	630*85	GRADING OF WOOD AND WOOD PRODUCTS. TIMBER QUALITY
630*81	WOOD AND BARK: STRUCTURE AND PROPERTIES	630*86	PULP INDUSTRIES. COMPOSITE MATERIALS MADE WHOLLY OR PARTLY OF WOODY MATTER. CHEMICAL UTILIZATION OF WOOD
630*811	Structure. Identification →582 Systematic botany	630*861	Pulp and paper manufacture. Textile and other cellulose derivatives →676 Pulp and paper industry 677 Textile industry
630*812	Physical and mechanical properties →53 Physics	630*862	Composite materials made wholly or partly of woody matter. Chipboard. Fibreboard →676.27 Boards 676.28 Fibre building board. Hardboard. Wallboard. Composite board materials
630*813	Wood chemistry →54 Chemistry. Crystallography. Mineralogy		
630*814	Natural durability. Old wood. Fossilized wood		
630*815	Effect of growth factors on structure and properties		
630*82	CONVERSION, SHAPING, ASSEMBLY AND FINISHING OF WOOD: GENERAL →674 Timber and woodworking industry		
630*821	Barking		
630*822	Saws and sawing (description and investigations of individual machines and their functions) →621.93 Saws. Sawing and similar cutting techniques		
630*823	Planing, cutting of mouldings. Chiselling. Mortising. Tenoning. Boring. Turning →621.91 Cutting, machining with chip formation in general		
630*824	Forms of joint. Jointing and assembly →674.028 Assembling. Bending. Wood joints		
630*825	Cleaving. Adzing. Mechanical comminution		
630*826	Peeling. Slicing. Trimming and edging of thin sheets		
630*827	Bending. Moulding (other than by cutting)		
630*828	General carpentry and joinery		
630*829	Finishing →674.07 Surface treatment of wood		
630*83	TIMBER MANUFACTURING INDUSTRIES AND PRODUCTS. USES OF WOOD AS SUCH →674 Timber and woodworking industry		

630*863	Wood hydrolysis. Saccharification	630*9	FORESTS AND FORESTRY FROM THE NATIONAL POINT OF VIEW (FOREST POLICY). SOCIAL ECONOMICS OF FORESTRY
630*864	Utilization of lignin		
630*865	Plastics from wood →678 Macromolecular materials (rubbers and plastics)	630*91	Land use. Land use policy. Afforestation policy →711.14 Land use
630*866	Utilization of wood extractives	630*92	Forest ownership and ownership policy
630*867	Destructive distillation. Charcoal and other products →662.71 Fuel technology of wood. Charcoal	630*93	Public supervision and regulation of forestry, including legislation for these purposes Other methods to implement forest policy. Subsidies. Credits. Forest insurance. Advisory services. Publicity. Education. Research. Associations
630*88	ECONOMY IN THE USE OF WOOD. REPLACEMENT OF WOOD BY COMPETITIVE MATERIALS	630*94	Forest taxation
630*89	OTHER (MINOR) FOREST PRODUCTS	630*95	Forest labour questions. Labour questions in wood transport and the wood industries
630*891	Mineral products (including peat and coal) →662.64 Peat and lignite 662.66 Bituminous coal and anthracite	630*96	International forest policy. Other international collaboration
630*892	Vegetable products	630*97	
630*893	Animal products (e.g. lac)		

631/635 Farm management. Agronomy. Horticulture

631 Agriculture in general

631.1	FARM MANAGEMENT AND ORGANIZATION <i>For economics → 33</i> <i>For management → 65</i> <i>Further particulars may be denoted by the common auxiliaries of time [Table I(g)], e.g.</i> 631.1“3726” Full-time farming “3727” Part-time farming	631.111.1	Farm location theory
		.2	Layout and suitability of farm property (for specific crops etc. <i>Specific crops may be denoted by colon combination, e.g.</i> 631.111.2:633.63 Suitability for sugar beet production
		.3	Farmland quality <i>Soil properties may be denoted by colon combination with the subdivisions of 631.4</i>
		.4	Farm location in specialized areas <i>Specific areas may be denoted by colon combination, e.g.</i> 631.111.4:633.63 Farms in sugar beet areas :799.2 Farms in hunting areas
Special auxiliary subdivisions for 631.1		631.112	Farm acquisition. Farm purchase, sale →631.12 Farm equipment and materials generally <i>Further particulars may be denoted by colon combination with the subdivisions of 658.6/.8</i>
631.1.016	Establishment. Growth. Decline. Amalgamation. Conversion etc. (farm or estate) 631.1.016 ≅ 65.016	631.113	<i>[cancelled]</i> → 631.16:658.155
.017	Size and extent of farm or landed estate 631.1.017 ≅ 65.017, e.g. 631.1.017 .1 Large farms, plantations, ranches etc. .2 Medium-sized farms, plantations etc. .3 Small farms. Smallholdings. Farmsteads	.115	Farms according to tenure, ownership, supervision and systems of management
.02	Special conditions, agreements etc. 631.1.02 ≅ 65.02, e.g. 631.1.027 Delivery conditions	.1	Private farms
Principal divisions (continued)		.11	Family-run farms
631.11	FARMS, FARM PROPERTIES AND FARMING SYSTEMS →631.12 Farm equipment and materials generally <i>Further particulars may be denoted by colon combination or by common auxiliaries of place [Table I(e)], e.g.</i> 631.11:711.2 Regional planning 631.11(1–772) Farms in underdeveloped areas (48) Scandinavian farms (82) Argentine farms	.12	Father-son farms
		.13	Partnership farms
		.15	Subsistence farms
		.17	Leasehold farms. Tenant farms. Sharecrop farms
		.2	Manager farms. Corporation farms
		.3/.5	<i>[cancelled]</i> → 631.115.17
		.6	Collective farms <i>Specific areas may be denoted by the common auxiliaries of place [Table I(e)], e.g.</i> 631.115.6(47 + 57) Kolkhozes (collective farms in USSR)
.111	Farm location, site and land features <i>Further particulars may be denoted by colon combination or by common auxiliaries of place, e.g.</i> 631.111:711.14 Land use 631.111(23) Mountain farms. Hill farms (252.6) Marshland farms. Fenland farms	.7	Public enterprise farms
		.71	State farms
		.73	Communal farms. Municipal farms
		.75	Mixed enterprise farms
		.8	Agricultural cooperatives →631.173 Organization of farm equipment and special services

631.115.9	Farms according to other management or operating systems	631.151	Systems of farm production and management
.91	Contract farms and farming		→631.58 Systems of cultivation
.92	Associate farms and farming	.1	Extensive farming system
.97	Prison farms. Penal farms	.2	Intensive farming system
.116/.116.6	<i>[cancelled]</i> → 631.1.017	.3	Specialized farm production system
.116.7	<i>[cancelled]</i> → 631.145	.4	Diversified farm production system
.116.9/.96	<i>[cancelled]</i> → 631.117	.6	Integrated farm production system
.117	Instructional, research and demonstration farms. Farm research stations	.61	Vertically integrated farm production system
.2	Instructional farms. School farms. Training farms →373.68 Agricultural training 377.5 Higher vocational training etc. 378.663 Agricultural colleges, schools and teaching institutes	.62	Horizontally integrated farm production system
.4	Research farms. Experimental farms. Agricultural research stations	.152	Principles of farm production management <i>Further particulars may be denoted by colon combination, e.g.</i> 631.152:519.2 Mathematical statistical methods
.6	Demonstration farms. Pilot farms		:65.011 Fundamental principles
631.12	FARM EQUIPMENT AND MATERIALS GENERALLY: SELECTION, ACQUISITION, MAINTENANCE ETC. <i>For farm buildings → 631.2</i> <i>For machines and implements → 631.3</i> <i>For fertilizers → 631.8</i>	.2	Farm increase and expansion. Farm modernization, technical innovations etc.
631.14	FARMING AND FARMS ACCORDING TO PRODUCTS AND PRODUCTION <i>Further particulars may be denoted by colon combination, e.g.</i> 631.14:633.1 Cereal farming :633.2 Grassland farming. Pasture farming :634 Fruit farming. Orchards :636 Livestock farming :636.2 Cattle farming. Ranching :636.5 Poultry farming :637.1 Dairy farming	.3	Changes in farm management. Regrouping. Modifications etc.
631.143	Farming without livestock	.153	Planning of farm production <i>Further particulars may be denoted by the common auxiliaries of time [Table I(g)], e.g.</i> 631.153“403” Short-term planning “405” Long-term planning
.145	Factory and farm enterprises combined. Industrialized farming generally →631.17 Agricultural technology. Farm technology	.2	<i>[cancelled]</i> → 631.153
.147	Biotechnic, ecological farming (for “alternative”, “intermediate” “soft” technology). Organic farming and farms	.3	Choice of cultivation/husbandry system: crop rotation, intercropping etc. 631.153.3 ≅ 631.58 <i>Specific crops may be denoted by colon combination with the subdivisions of 633/635</i> →631.153.7 Changes in cultivation and production methods. Conversion to other systems
631.15	FARM PRODUCTION. FARM MANAGEMENT. FARM ADMINISTRATION → 631.16 Farm finances and economic assessment <i>Further particulars may be denoted by colon combination with the subdivisions of 33 and 65, e.g.</i> 631.15:33 Farm economics :338 Farm production in the economy :65.011 Farm management principles and policy :65.011.4 Farm productivity. Farm efficiency :65.012.4 Farm management methods. Farm directives :658.2 Equipment. Farm production facilities :658.5 Farm production techniques. Farm planning and control <i>or by special auxiliaries, e.g.</i> 631.15.017.1 Large farm production and management .3 Small farm production and management	.4	Choice of work method. Division of labour. Use of animals or machines →631.17 Agricultural technology. Farm technology 65.011.5 Manual work. Mechanization. Automation
		.42	Manual labour
		.44	Use of draught animals
		.46	Use of machines
		.5	Supervision of production plans →631.155 Farm production control. Farm goals and quotas. Crop supplies and referenda
		.6	<i>[cancelled]</i> → 631.153“403”
		.7	Changes in cultivation and production methods. Conversion to other systems →631.152.3 Changes in farm management. Regrouping. Modifications etc. 631.153.3 Choice of cultivation/husbandry system: crop rotation, intercropping etc.
		.155	Farm production control. Goals and quotas. Crop supplies and referenda <i>Further particulars may be denoted by colon combination, e.g.</i> 631.155:658.5 Production control techniques
		.1	Farm production goals and quotas
		.12	Farm production goals
		.13	Farm production quotas
		.2	Crop supplies
		.3	Crop losses →368.5 Agricultural insurance
		.4	Crop surpluses

631.155.5	Referenda <i>Further particulars may be denoted by colon combination, e.g.</i> 631.155.5:633.71 Tobacco referendum	631.165	Estimation of harvest and harvest failures .2 Estimation of normal harvests .8 Estimation of harvest failures
.6	Subsidies <i>Further particulars may be denoted by colon combination, e.g.</i> 631.155.6:633.1 Grain subsidy	631.17	AGRICULTURAL AND FARM TECHNOLOGY. →631.145 Factory and farm enterprises combined. Industrialized farming generally 631.147 Biotechnic, ecological farming (for "alternative", "intermediate", "soft" technology). Organic farming and farms
.157	Farm business, office administration <i>Further particulars may be denoted by colon combination, e.g.</i> 631.157:368 Farm insurance :368.5 Agricultural insurance :651 Farm office work and routine :651.4 Farm records, filing etc. <i>or by special auxiliaries, e.g.</i> 631.157.02 Farm business conditions, agreements etc. .027 Farm delivery conditions, guarantees	.171	Mechanization and automation of farming and agriculture. <i>Further particulars may be denoted by colon combination with the subdivisions of 65.011.5, 621.3 or 631.3</i>
.158	Farm work and personnel administration <i>Further particulars may be denoted by colon combination, e.g.</i> 631.158:331 Labour/manpower economic problems :65.012 Work organization, direction etc. :65.013 Work psychology (of farm workers) :65.015 Work improvement studies :658.3 Farm personnel, work conditions :658.31 Employer-employee relations :658.32 Wages, pensions etc. :658.38 Work conditions, hours, welfare	.172	Use of powered machinery →631.37 Machines and equipment for providing driving power and traction. Agricultural transport equipment
631.16	FARM FINANCES AND ECONOMIC ASSESSMENT <i>Further particulars may be denoted by colon combination, e.g.</i> 631.16:336.7 Agricultural banks and banking. Loans, credit etc. :338.5 Prices and costs (economics) :657.92 Assessment. Valuation :658.14 Financing, raising of capital :658.15 Financial management, investment :658.155 Profit and loss. Profitability	.173	Organization of farm equipment and special services .2 Machine-tractor stations (MTS) .4 Repair and technical stations (RTS) .6 Services for joint use of machines .174 Chemization
.162	Farm financial administration. Accounting, bookkeeping etc. <i>Further particulars may be denoted by colon combination with the subdivisions of 657, e.g.</i> 631.162:657.1 Bookkeeping systems and methods :657.2 Farm accounts, bills, payments :657.3 Farm budgets, estimates, balances :657.47 Costing. Cost accountancy :657.6 Auditing	631.2	FARM BUILDINGS, STRUCTURES AND INSTALLATIONS. BUILDINGS FOR LIVESTOCK, AGRICULTURAL PRODUCTS, MACHINERY AND EQUIPMENT <i>Further particulars may be denoted by colon combination with the subdivisions of 624.9, 628 and 696/697</i> <i>For legal, administrative aspects → 34/35</i> <i>For building aspects → 69</i> <i>For architectural problems, planning, care, history etc. → 72.011.03</i> <i>For architectural programming, design → 721</i> <i>For domestic architecture → 728</i>
.164	Agricultural estimation and valuation .2 Principles of estimation .22 Mathematical and economic principles .23 Investment of working capital .24 Valuation of crops (including land value) .25 Land values. Land prices .26 Valuation of growing crops .27 Valuation of by-products and wastes .28 Estimation of damage .6 Estimation and valuation of whole agricultural enterprises	631.21	FARMSTEADS. MULTI-PURPOSE FARM BUILDINGS →728.67 Farmhouses (with their dependencies) 728.94 Outbuildings, sheds for keeping and storing tools, produce, vehicles <i>Further particulars may be denoted by colon combination with the subdivisions of 628, e.g.</i> 631.21:628.1 Water supply installations :628.4 Sanitary installations :628.9 Lighting
		.212	Farm building groups. Farmyards <i>For road and path construction → 625.71.8</i>
		.214	Seasonally occupied farmsteads. Outfarms
		.216	Multi-purpose farm buildings
		631.22	LIVESTOCK BUILDINGS AND STRUCTURES. ROOMS. FITTINGS <i>For stalls, livestock management → 636.083.11.3</i> <i>For feeding devices → 636.084.7</i> <i>For beehives → 638.142</i> <i>For zoological, botanic garden buildings → 727.6</i> <i>Further particulars may be denoted by colon combination with the subdivisions of 628, e.g.</i> 631.22:628.8 Indoor climate. Heating, cooling, air-conditioning and comfort requirements :628.9 Lighting

Special auxiliary subdivisions for 631.22

- 631.22.01 Special fittings and installations
For machinery → 631.3
- .011 For sheltering, protection and confining,
e.g. cubicles, stalls
- .012 For fastening or securing, e.g. of loose or running
animals
- .013 For care, cleaning, washing and shearing
- .014 For feeding and fattening
- .015 For breeding
- .016 For collecting, handling and care of products
- .018 For removing manure and waste
- .019 For other purposes

Principal divisions (continued)

- 631.222 **Stables. Similar buildings for hooved
animals**
- .223 **Sheds. Similar buildings for cloven-footed
animals**
- .2 Cattle sheds. Cowsheds. Cowhouses
- .22 Beef cattle housing, barns and sheds
*Further particulars may be denoted by special
auxiliaries, e.g.*
631.223.22.014 Feeding barns. Fattening
houses
.015 Breeding and production barns
- .24 Dairy cattle structures. Calf houses
*Further particulars may be denoted by special
auxiliaries, e.g.*
631.223.24.011 Shelter. Stall barns. Cow
cubicles
.012 Loose housing. Barnyard
structures for free-running
animals
.015 Calving houses
.016 Milking houses
.018 Barn cleaners
- .26 Bull pens
- .28 Deep-litter housing. Housing on slates
- .4 Goat pens. Sheep pens
*Further particulars may be denoted by special
auxiliaries, e.g.*
631.223.4.013 Shearing pens
.016 Wool-collecting and
wool-handling pens
- .6 Pig houses. Sties
*Further particulars may be denoted by special
auxiliaries, e.g.*
631.223.6.014 Feeding barns. Fattening
houses
.015 Farrowing houses
- .66 Hog houses
- .9 Sheds and buildings for other cloven-footed
animals
- .224 **Kennels. Other buildings for beasts of prey**
- .2 Dog kennels
- .4 Fox farm buildings
- .6 Mink farm buildings. Otter houses. Badger houses
- .225 **Houses and structures for rabbits and
rodents**
- .2 Rabbit farm buildings. Rabbit houses
- .4 Nutria houses. Chinchilla houses
- .227 **Houses and structures for poultry and other
birds. Aviary structures**
- .2 Poultry farm buildings. Poultry houses
*Further particulars may be denoted by special
auxiliaries, e.g.*
631.227.2.014 Broiler houses
.015 Chick brooders
.016 Laying houses
- .22 Domestic fowl houses

- 631.227.24 Turkey houses
- .3 Houses for water birds, geese, ducks
- .5 Pigeon houses
- .6 Game-bird houses, e.g. for pheasant and partridge
- .7 Cage-bird structures. Nesting boxes etc.
- .8 Houses for birds of prey
- .229 **Houses and structures for other livestock**
- 631.23 **PLANT BREEDING AND NURSERY
BUILDINGS**
*For zoological, botanic garden buildings
→ 727.6*
*Further particulars may be denoted by colon
combination with the subdivisions of 628, e.g.*
631.23:628.1 Water supply
:628.8 Indoor climate. Heating. Air
conditioning
- .234 Greenhouses
*For glasshouse and conservatory
architecture → 728.98*
- .236 Hotbed structures
- 631.24 **BUILDINGS FOR STORAGE, HANDLING AND
PROCESSING OF AGRICULTURAL PRODUCE**
→631.56 Preparation of agricultural produce
725.35 Storage houses. Warehouses. Depots
- .242 **Stores for animal products**
Stores for meat and meat products
→637.513 Slaughterhouses. Slaughterhouse
appliances
725.355 Cold-storage buildings.
Ice-houses
- .3 Stores for milk and dairy produce
For dairying → 637.1
- .32 Milk rooms
- .34 Butter stores. Buttermaking rooms
- .36 Cheese stores. Cheese-processing rooms
- .5 Egg stores. Egg packing and grading rooms
- .7 Skin and fur stores, processing rooms
- .9 Stores and processing rooms for other animal
products
- .243 **Stores for plant products. Granaries etc.**
Stores for hay and other plant fodder. Barns. Silos
etc.
- .22 Hay barns
- .23 Hay driers
- .24 Fodder silos
→624.953 Containers
725.36 Silos. Grain elevators
- .242 Horizontal structures. Trench silos. Bunker silos
- .244 Vertical structures. Pit silos. Tower silos
- .27 Stores for straw. Equipment for treating with lye
- .3 Grain stores. Meal stores. Seed stores
- .32 Granaries
- .33 Grain driers
For milling of wheat and rye → 664.71
- .35 Meal stores. Meal tubs
- .36 Seed stores
- .4 Stores for potatoes, roots
- .42 Potato stores
- .5 Fruit stores. Green vegetable stores
- .7 Tobacco stores. Tea stores
- .8 Textile produce stores. Stores for hemp, sisal, flax
- .9 Stores for other plant products
- .244 **Stores for mineral products**
Fertilizer sheds
- .6 Stores for mineral fodder
- .246 **Fuel stores**
- .248 **Pits and other stores for manure and waste**
Primitive pits for manure
- .2 Liquid manure pits. Manure tanks
- .4 Compost pits. Compost heaps
- .6 Pits for waste
- .8
- 631.25 **SHEDS AND OTHER BUILDINGS FOR FARM
MACHINERY AND EQUIPMENT. SPECIAL
BUILDINGS**
Tractor sheds. Combining machines. Sheds, etc.
- .252

631.252 (cont'd)	→725.381 Garages. Buildings, facilities for parking vehicles 728.94 Outbuildings, sheds for keeping and storing tools, produce, vehicles	631.3.03	FARM MACHINES AND IMPLEMENTS ACCORDING TO THE MEANS, AUXILIARY POWER OR MECHANISM USED TO OPERATE THE TOOLS
.253	Sheds for implements, wagons, sledges	.031	By mechanical action
.256	Farm workshops. Forges →621.73 Forge work. Forge layout and equipment. Open and die forging	.032	By pneumatic means
.258	Sheds for hand tools and ancillary equipment	.2	By compressed air
631.27	FARMLAND BOUNDARY DIVISIONS. FENCES. ENCLOSURES →625.77 Roadside planting 636.083.5 Supervision of animals on pastures 712.35 Boundaries: walls, fences, hedges, ditches, ha-has	.3	By suction
		.033	By hydraulic means
		.036	By heat
		631.3.05	MACHINES AND IMPLEMENTS WITH DEVICES FOR MEASURING, GAUGING, SAMPLING ETC.
		631.3.06	MACHINE AND IMPLEMENT COMBINATIONS. SETS OF MACHINES AND IMPLEMENTS FOR USE IN SEQUENCE <i>The .06 special auxiliary may be added to the main number for the first implement in the implement combination, e.g.</i> 631.312.06 Combination of plough + harrow and float and drill or fertilizer, distributor 631.356.2.06 Combination of root crop topper + root crop lifter + root crop collector + loader and tipper <i>The .06 special auxiliary may also be used for new machine combinations provided that there are no appropriate main numbers</i>
Special auxiliary subdivisions for 631.27			
631.27.01	Special fittings and installations 631.27.01 ≈ 631.22.01		
Principal divisions (continued)			
631.271	Hedgerows. Hedges <i>Further particulars may be denoted by colon combination with the subdivisions of 712.41</i>		
.272	Walls <i>Further particulars may be denoted by colon combination with the subdivisions of 693.11.5</i> →69.022.12 Boundary walls enclosing open spaces, gardens etc.		
.273	Fencing. Railways. Gates. Stiles <i>Further particulars may be denoted by colon combination with the subdivisions of 69.028.8</i>	631.3.07	FARM MACHINES AND IMPLEMENTS ACCORDING TO THE TYPE OF DRIVE AND POWER TRANSMISSION →62-8 Motive force or motive power characteristics of machines and apparatus <i>These .07 special auxiliaries should be used only if it is necessary to specify or differentiate individual implements To distinguish between machines and implements fitted or not fitted with a (driver's) seat, the following numbers may be attached to .071.4 and .072.1 (and their subdivisions), .074, .076 and .077:</i> 2 No (driver's) seat fitted 3 Fitted with (driver's) seat, e.g. 631.3.071.43 Animal-drawn implements with seat .071.453 Animal-drawn implements with ground wheel drive and seat .072.12 Trailed implements not fitted with a seat .076.2 Self-propelled machines not fitted with a seat .076.3 Self-propelled machines with seat
.3	Electrified fences		
.274	Trenches. Ditches. Dikes. Crossings over them		
.3	Cattle-grids		
.276	Special enclosures, e.g. for slaughterhouses		
631.3	AGRICULTURAL MACHINES, IMPLEMENTS AND EQUIPMENT →631.17 Agricultural and farm technology <i>Concepts that cannot be classed using the principal divisions or .0 special auxiliaries below may be classed using the -1/-9 special auxiliaries listed under 62</i>		
Special auxiliary subdivisions for 631.3			
631.3.01	VEHICLE COMPONENTS OTHER THAN POWER UNITS 631.3.01 ≈ 629.11.01		
631.3.02	COMPONENTS OF FARM MACHINES AND IMPLEMENTS. TOOLS. MACHINE PARTS. ATTACHMENTS.		
.021	Bodies and hoppers (as parts of machines and implements), e.g. 631.312.021 Plough bodies and body components 631.331.021 Seed boxes	631.3.071	Animal-drawn implements. Hand implements
.022	Machine parts and devices for comminuting, spreading, cutting, threshing etc., e.g. 631.316.022 Cultivator tines 631.33.022 Seed and fertilizer distributor units 631.354.022 Mower cutter bars 631.361.022 Threshing devices	.2	Hand implements. Knapsack appliances
.023	Structural members. Frames. Chassis. Steering and hitching (coupling) devices etc., e.g. 631.312.023 Plough frames. Plough legs 631.316.023 Cultivator hitch units 631.33.023 Steering devices for seed and fertilizer distributors	.3	Implements guided by hand
.024/.028	Supplementing machine parts, units and devices (tying, conveying, safety devices etc.) <i>These numbers are expanded under various principal divisions, e.g., 631.312, 631.33, 631.354, 631.361</i>	.4	Animal-drawn implements 2 No seat fitted 3 Fitted with seat
		.44	Not fitted with a drive
		.45	Ground-wheel-driven
		.47	Engine-driven
		.072	Tractor implements for three-wheel, four-wheel and track-laying tractors
		.1	Trailed implements. Machines and implements pulled by attaching to tractor at drawbar or drawbar clevis 2 No seat fitted 3 Fitted with seat
		.14	Not fitted with a drive
		.15	Ground-wheel-driven

- 631.3.072.16 Driven by power take-off
 - .17 Engine-driven
 - .2 Semi-mounted implements. Semi-mounted machines and implements (removable)
 - 631.3.072.2 $\cong$ 631.3.072.1
 - .3 Mounted implements. Mounted machines and implements (removable)
 - .31 Front-mounted implements
 - 631.3.072.31 $\cong$ 631.3.072.1
 - .32 Rear-mounted implements
 - 631.3.072.32 $\cong$ 631.3.072.1
 - .33 Mid-mounted implements
 - 631.3.072.33 $\cong$ 631.3.072.1
 - .34 Side-mounted implements
 - 631.3.072.34 $\cong$ 631.3.072.1
- .074 **Machines and implements for two-wheeled tractors**
- .075 **Equipment mounted on vehicles or craft**
 - Specific types of vehicle may be denoted by colon combination with the subdivisions of 629*
 - .3 On land vehicles
 - .5 On watercraft. On floats
 - .6 On air-cushion vehicles
 - .7 On aircraft
- .076 **Machines with their own motive power. Self-propelled machines and implements (other than tractors)**
 - 2 No seat fitted
 - 3 Fitted with seat
- .077 **Winch-operated implements**

Principal divisions (continued)

- 631.31 SOIL CULTIVATION MACHINES AND IMPLEMENTS. AUXILIARY MACHINES AND IMPLEMENTS
 - 631.51 Soil preparation and ploughing
- .311 **General machines and implements**
 - .3 Post-hole diggers. Plant-hole borers
 - .5 Trenches and trench digging equipment. Machines for digging trenches and laying drainage pipes simultaneously and other machines for land improvement
 - .51 Machines for digging and cleaning drainage channels. Ditchers. Rotary ditchers
 - 626.861 Drainage by open channels
 - 631.312.63 Ploughs for forming irrigation and drainage channels. Implements for cutting channels
 - .7 Machines and implements for removing roots, stumps, bushes etc.
 - 631.312.68 Ploughs for land clearance
 - .75 Stone pickers. Stone-collecting machines
 - .8 Soil-shifting, soil-mixing, soil-regenerating and soil-sterilizing appliances
 - .82 Implements for surface levelling, e.g. scrapers, graders
 - .86 Machines and equipment for mixing, regenerating and sterilizing soil
- .312 **Ploughs**
 - 625.768.5 Removal of snow, ice — Highway engineering

Special auxiliary subdivisions for 631.312

- 631.312.02 Plough components
 - .021 Plough bodies
 - .3 Ploughshares
 - .4 Mouldboards
 - .5 Landsides. Slades. Tail-pieces. Furrow clearers
 - .6 Plough discs

- 631.312.023 Structural members. Frames. Legs. Shins. Frogs
- .024 Ancillary parts. Knife coulters. Disc coulters. Skim coulters. Manure-burying coulters
- .07 Ploughs according to motive power
 - 631.312.07 $\cong$ 631.3.07, e.g.
 - 631.312.076 Power-operated ploughs
 - .077 Winch-operated ploughs

Principal divisions (continued)

- 631.312.2 Animal-drawn ploughs (ploughs fitted with shares)
 - .22 Animal-drawn non-reversible ploughs
 - .221 Swing ploughs
 - .222 Single-wheel ploughs
 - .223 Gallows ploughs
 - .224 Frame ploughs
 - .24 Animal-drawn reversible ploughs
 - .241 Reversible swing ploughs
 - .242 Reversible single-wheel ploughs
 - .243 Reversible gallows ploughs
 - .244 Half-turn ploughs
 - .245 Balance ploughs
 - .246 Alternate ploughs
 - .3 Ploughing machines. Ploughs with movable tools
 - .32 Ploughs with oscillating tools
 - .35 Ploughs with rotating tools. Rotary ploughs
 - .352 Ploughs with tools rotating about a vertical axis
 - 631.311.3 Post-hole diggers. Plant-hole borers
 - .354 Ploughs with tools rotating about a horizontal axis. Gyrotillers etc. Spading machines
- .4 Tractor ploughs (fitted with shares)
 - Drive and power transmission details may be denoted by the .07 special auxiliaries listed under 631.3, e.g.*
 - 631.312.4.072.1 Trailed ploughs
 - .072.2 Semi-mounted ploughs
 - .072.3 Mounted ploughs
 - .42 Tractor ploughs, non-reversible
 - .44 Tractor ploughs, reversible
 - .444 Half-turn ploughs
 - .445 Balance ploughs
 - .446 Alternate ploughs
 - .5 Subsoiling ploughs. Deep-digging ploughs
 - 631.316.22 Deep-digging cultivators. Implements for deep-loosening of the soil
 - .52 Deep-digging ploughs. Trenching ploughs
 - .54 Implements for subsoiling at the same time as ploughing (for ploughing at more than one depth)
 - .542 Special ploughs for subsoiling in the furrow
 - .544 Ploughs with subsoiling tines. Two-depth ploughs. Two-depth ploughs which loosen soil in the surface layer and break up soil in the lower layer
 - .6 Special ploughs
 - Ploughs for specific crops may be denoted by colon combination with the subdivisions of 633/635*
 - Ploughs for specific types of terrain may be denoted by the (1-92) or (2) common auxiliaries of place [Table I(e)]*
 - .62 Ploughs modified for ridging, potato lifting, root crop lifting, drawing furrows, hoeing etc.
 - .63 Ploughs (with shares) for forming irrigation and drainage channels. Implements for cutting channels
 - 631.311.51 Machines for digging and cleaning drainage channels. Ditchers. Rotary ditchers
 - .633 Drainage ploughs. Ploughs for forming shallow drains. Mole ploughs. Tile layers
 - .65 Ploughs not fitted with a mouldboard

631.312.68	Ploughs for land clearance →631.311.7 Machines and implements for removing roots, stumps, bushes etc.
.69	Skim ploughs. Weeding ploughs
.8	Disc ploughs <i>Drive and power transmission details may be denoted by the .07 special auxiliaries listed under 631.3</i>
.82	Conventional disc ploughs
.84	Ploughs with reversible discs
.87	Ploughs with driven discs
.313	Harrows <i>Further particulars may be denoted by the .0 special auxiliaries listed under 631.3, e.g.</i> 631.313.02 Harrow components. Harrow teeth. Chisel teeth .07 Drive and power transmission .072.1 Trailed harrows .3 Mounted harrows
.1	Harrows with rigid frames. Heavy harrows. Drag harrows. Seed harrows. Light harrows
.2	Flexible harrows and zig-zag harrows. Chain harrows. Spiked chain harrows. Weeders. Pasture harrows. Cow-pat spreaders. Harrows for smoothing grassland
.3	Spring-tine harrows →631.316.27 Light cultivators. Spring-fine cultivators
.4	Harrows with curved teeth. Harrows with chisel teeth
.5	Rotary harrows. Clod-breaking harrows. Rotary crumblers. Rotary tillers. Harrows with rotatable sets of teeth
.6	Disc harrows. Offset disc harrows
.7	Powered harrows
.72	Harrows with power-take-off-driven rotary tools. Harrows with blades mounted in sets on a rotor. Rotary crumblers. Reciprocating harrows →631.316.23 Rotary cultivators
.74	Harrows with oscillating tools. Mounted vibratory harrows
.9	Other types of harrow
.314	Land rollers, flat rollers and other implements for soil cultivation →625.084 Rolling. Road rollers
.1	Rollers for soil cultivation in general
.2	Rollers of several segments. Ring rollers
.3	Norwegian rollers. Crosskill rollers. Cambridge rollers. Clod crushers. Implement combination comprising roller and rotary harrow. Rollers with longitudinally corrugated surfaces
.4	Flat rollers
.5	Soil packers. Campbell rollers
.6	Scrubbers. Blade-type scrubbers. Floats. Chain-type scrubbers
.315	Hand tools for soil cultivation. Weeding tools. Garden tools
.1	Dutch hoes. Digging hoes
.2	Pulling hoes. Hand cultivators. Rotary hand-harrows. Ridging tools. Digging hooks
.4	Weeding tools
.6	Rakes. Garden rakes <i>For haymaking rakes → 631.353.2</i>
.7	Spades. Shovels. Digging forks
.316	Cultivators. Machine hoes

Special auxiliary subdivisions for 631.316

631.316.02	Cultivator components. Hoe components. Cultivator tines, hoe blades etc.
.022	Operating tools. Tines. Blades
.2	Rigid tines. Spring tines. Blades
.4	A-hoe blades. Semi-rigid spring-loaded cultivator tines
.023	Connecting parts: frames, hitch elements

Principal divisions (continued)

631.316.2	Cultivators <i>Drive and power transmission details may be denoted by the .07 special auxiliaries listed under 631.3</i>
.22	Deep-digging cultivators. Implements for deep-loosening of the soil →631.312.5 Subsoiling ploughs. Deep-digging ploughs
.23	Rotary cultivators
.27	Light cultivators, Spring-tine cultivators →631.313.3 Spring-tine harrows
.4	Hoes for soil working in and between the rows <i>For ploughs modified for hoeing etc.</i> → 631.312.62 <i>For implements for making holes for planting etc.</i> → 631.319.3
.41	Hoes with rigid tools
.42	Hoes with oscillating blades
.43	Hoes with blades mounted on oscillating levers or on parallel-linkage frames
.44	Hoes with rotating blades
.45	Machines and implements for thinning and singling plants
.5	Pasture aerators. Turf cutters
.6	Machines for uprooting or cutting weeds. Weeding implements →631.312.69 Skim ploughs. Weeding ploughs 631.316.4 Hoes for soil working in and between the rows
.317	Milling cultivators →631.311.51 Machines for digging and cleaning drainage channels. Ditchers. Rotary ditchers 631.312.87 Ploughs with driven discs 631.313.7 Powered harrows 631.316.23 Rotary cultivators 631.316.44 Hoes with rotating blades
.319	Machines and implements for soil cultivation for planting and tending plants <i>Further particulars may be denoted by the .0 special auxiliaries listed under 631.3, e.g.</i> 631.319.06 Implement combinations .07 Drive and power transmission
.2	Machines and implements for making channels, furrows and ridges for planting, seed drilling and applying fertilizer. Implements for drawing furrows →631.331 Machines for sowing 631.332 Planting machines 631.333 Fertilizer distributors
.3	Machines and implements for making holes for planting and for covering them. Dibbling implements for the planting and care of row crops →631.332.7 Potato planters
.4	Mulching machines
631.33	MACHINES AND IMPLEMENTS FOR SOWING. MACHINES AND IMPLEMENTS FOR PLANTING. FERTILIZER DISTRIBUTORS ETC.

Special auxiliary subdivisions for 631.33

- 631.33.02 Components. Details
- .021 Containers, seed boxes (for drills) and hoppers (for fertilizer distributors)
 - .4 Control devices. Adjustment mechanisms
 - .022 Feed mechanisms. Distributing mechanisms
 - .1 Agitators
 - .2 Distribution apertures. Distribution slots
 - .24 Plate-type or agitator-type feed
 - .3 Endless chain mechanisms
 - .4 Reciprocating plate mechanisms
 - .42 Scrapers
 - .44 Slides
 - .5 Distributor mechanisms with hopper parts that are movable
 - .6 Distributor mechanisms with rotating components, e.g. rollers
 - .62 Distributor mechanisms with cups
 - .63 Distributor mechanisms with brushes
 - .64 Distributor mechanisms with cell wheels
 - .65 Distributor mechanisms with augers (helical feed)
 - .66 Distributor mechanisms with plates
 - .67 Distributor mechanisms with slides
 - .69 Distributor mechanisms with other types of distributing mechanism
 - .7 Mechanisms according to method of distribution (position of mechanism)
 - .71 Delivery of seed from above (over the axle)
 - .72 Delivery of seed from below (under the axle)
 - .8 Distributor mechanism in seed box
 - .9 Other distribution devices
 - .96 Spike-type devices
 - .023 Steering devices. Chassis
 - .024 Devices for introducing the seed into the soil
 - .2 Hoe coulters
 - .3 Disc coulters
 - .4 Seed tubes
 - .5 Press wheels
 - .07 Machines for sowing and planting, fertilizer distributors etc., according to type of drive and power transmission

Principal divisions (continued)

- 631.331 **Machines for sowing**
- .1 Seed broadcasters
 - .4 Ring rollers for making furrows
 - .5 Seed drills in general
 - .52 For band sowing (strip sowing)
 - .53 Machines for drilling in rows
 - .54 Machines for drilling rows with uniform inter-row distance. Machines for sowing seed in clusters and for check-row planting
 - .56 Machines for sowing seeds in groups
 - .8 Special machines and implements for sowing seed
 - .81 Machines for sowing seeds in furrows. Ploughs with drill and fertilizer distributor attachments
 - .85 Spacing precision drills. Drills for sowing single seeds
 - .86 Machines for tape-drilling of seed
 - .92 Equipment for seed preparation
 - .921 Germination equipment
 - .922 Equipment for dressing, disinfecting etc. of seed
 - .93 Machines for producing seed tapes
 - .99 Other devices for sowing seed
- 631.332 **Planting machines. Machines and equipment for planting-out and for preparing small plants and seedlings**
- Planting machines for specific crops may be denoted by colon combination with the subdivisions of 633/635*
- .5 Machines for pricking-out seedlings, for planting pot plants etc.

- 631.332.52 Machines for pricking-out seedlings
- .53 Machines for pot plants
- .54 Machines for young plants and cuttings
- .55 Machines for arborescent plants
- .7 Potato planters
- .71 Planters other than check-row planters
- .712 Planters with scoop wheels
- .713 Planters with cups attached to chains
- .714 Planters with picker wheels and gripping devices
- .719 Planters with other feed mechanisms such as valves, augers etc.
- .75 Check-row planters
 - 631.332.75 ≅ 631.332.71
- .8 Special planting machines and equipment
- .81 Machines for planting in furrows
- .87 Planting sticks
- .92 Devices for preparing small plants, stecklings and seedlings
- .925 Machines and equipment for making soil blocks (soil block-making machines)
- .99 Other appliances and equipment for planting
- .333 **Fertilizer distributors. Machines, implements and equipment for fertilizer preparation and distribution**

Details of machines for handling particular fertilizers may be denoted by colon combination with the subdivisions of 631.82/89

 - .4 Equipment for spreading liquid manure. Liquid manure tanks. Liquid manure pumps. Slurry tankers
 - .42 Liquid manure spreading devices and pumps. Spraying equipment for applying liquid manure. Liquid manure tankers
 - .43 Machines for applying liquid manure below the surface in parallel rows
 - .44 Machines for applying liquid chemical fertilizers
 - .5 Machines for distributing fertilizer in powder or granular form
 - .52 For fertilizer in powder form
 - .53 For fertilizer in granular form
 - .6 Farmyard manure spreaders. Machines for spreading manure, compost and peat
 - .7 Seed and fertilizer distributors in combination with supplementary feed units. Planting machines with supplementary feed units. Equipment for supplying nutrients to plant roots
 - .8 Fertilizer distributors according to method of fertilizer placement
 - .81 In furrows
 - .83 In bands
 - .84 In heaps
 - .85 In discontinuous bands
 - .92 Equipment for comminuting farmyard manure. Manure storage pits. Treatment plant for farmyard and liquid manure. Appliances for the preparation of compost
 - .93 Equipment for the preparation of mineral fertilizers
 - .99 Other fertilizer distributors
- .334 **Combine drills. Planting machines in combination with fertilizer distributors. Planting machines with supplementary devices, e.g. for surface or subsurface fertilizer application**
- .335 **Appliances for propagating plants by layering, grafting etc.**
- .336 **Implements for transplanting**
 - .6 Implements for transplanting trees

631.338	Equipment for plant culture other than in the ground	631.347.8	Devices for watering roots or supplying nutrients. Root-feeding devices
.2	Pots. Boxes etc.	.348	Machines, implements and equipment for plant protection
.4	Equipment for the soil-less culture of plants, e.g. hydroponics	→632.9	Control of plant diseases and pests
	→631.589 Artificial media	.2	Equipment for scaring-off pests
631.34	MACHINES, IMPLEMENTS AND EQUIPMENT FOR THE CARE AND PROTECTION OF PLANTS	.3	Devices for trapping pests or for mechanical pest control
.342	Cutting appliances	.32	Traps and snares
.1	Hedge shears. Flower cutters. Fruit shears. Tree clippers. Branch clippers. Lawn shears. Lawn edge clippers. Lawn sweepers	.33	Devices with adhesives. Adhesive bands
.2	Tree pruning knives, Vineyard knives. Vine pruning knives	.4	Equipment employing chemicals for the control of pests, plant diseases and weeds
.3	Chisels for tree surgery	.42	Fumigators. Smoke generators
.4	Garden cutting tools of bill-hook and sickle shape. Sickles	.43	Vaporizers
	→631.351.1 Sickles. Harvesting knives	.44	Injectors. Injection equipment
.5	Axes. Hatchets	.45	Spraying equipment
.6	Pruning saws	.455	Aerosol generators. Mist blowers
.7	Tree scrapers	.46	Dusters
.343	Soil treatment equipment for the care and protection of plants. Soil heating devices etc.	.5	Thermal equipment for the control of pests, plant diseases and weeds
	→624.143 Protective measures against frost and ice formation	.52	Equipment employing hot water for pest control
	631.344.8 Heating, ventilating and watering equipment for forcing houses, glasshouses etc.	.53	Steam equipment for pest control (steam generating equipment)
.344	Devices for covering and protecting plants	.54	Hot-air equipment for pest control
	<i>Further particulars may be denoted by colon combination, e.g.</i>	.55	Flame guns
	631.344:632.11 Devices for protecting plants against extreme temperature, frost etc.	.6	Light ray equipment for pest control
	→631.544 Covering of crops. Cultivation under cover	.7	Acoustic devices for pest control
.1	Cloches	.8	Electrical devices for pest control
.2	Cold frames	.349	Other equipment and devices for the care and protection of plants
.3	Hot beds. Heated frames. Forcing beds. Lights	631.35	HARVESTING EQUIPMENT. HARVESTERS
.4	Cold greenhouses		<i>Further particulars may be denoted by the .0 special auxiliaries listed under 631.3, e.g.</i>
.5	Heated greenhouses. Glasshouses. Forcing houses	631.35.05	Harvesters with measuring devices
.7	Shading devices. Mats	→631.359	Equipment and machines for measuring crop yield
.8	Heating, ventilating and watering equipment for forcing houses, glasshouses etc.	631.351	Hand tools. Simple harvesting tools
	<i>Further particulars may be denoted by colon combination with the subdivisions of 621.647 and 628.8</i>	.1	Sickles. Harvesting knives
.345	Supports for plants	.2	Scythes
.1	Wires and cords	.4	Hay forks. Straw forks
.2	Tree supports. Stakes. Vine supports. Gear for driving-in and extracting posts	.352	Mowing machines in general
.24	Devices for holding and supporting branches	→631.354	Machines for cutting cereal crops. Binders. Combine harvesters
.3	Supports for training hops, vines, fruit trees and bushes. Devices for attaching to training wires. Tying equipment	Special auxiliary subdivisions for 631.352	
.4	Walls for espalier-type fruit cultivation	631.352.02	Mower components
.5	Devices for supporting fruit	.022	Cutting mechanisms
.6	Tree ties	.027	Swathing attachments and collecting devices
.347	Watering appliances. Irrigation equipment	Principal divisions (continued)	
.1	Pipelines. Hoses. Vehicles for transporting hoses. Hose reels	631.352.2	Reciprocating mowers
.2	Watering appliances	.4	Belt-type and chain-type mowers
.21	Watering cans	.5	Horizontal rotary mowers. Cylinder mowers
.3	Spraying equipment. Sprinklers. Spray guns. Spray lances	.92	Mowing machines for plants growing in water. Reed cutters. Reed mowers. Rush cutters
.4	Rotary sprinklers	.93	Lawn mowers. Lawn edge-trimming machines
		.94	Mowing machines for operating in ditches and on banks
		.95	Hedge-trimming machines
		.99	Other types of mower
		.353	Haymaking machines apart from mowers
		.1	Tedders
		.2	Rakes. Hay turners. Combined rakes and turners. Hay sweeps
		.22	Hand rakes. Horse rakes. Buckrakes. Hay sweeps. Reel-type rakes. Side-delivery rakes
		.23	Hay turners. Reel-type tedders. Fork-type tedders

631.353.24	Combined rakes and turners (finger-wheel side-rakes and swath turners)	631.356.45	Potato spinners
.3	Hay loaders. Hay sweeps with tying device. Pick-up balers →631.364 Equipment for bundling, tying, packing etc.	.46	Complete potato harvesters
.4	Implements for making haycocks. Haycock loaders <i>For loading and conveying equipment</i> → 631.374	.47	Machines and equipment for collecting potatoes. Potato pick-up loaders
.6	Forage crimpers. Forage crushers	.358	Harvesters for other crops <i>Harvesters for specific crops may be denoted by colon combination with the subdivisions of 633/635</i>
.7	Forage harvesters	.359	Equipment and machines for measuring crop yield →631.35.05 Harvesters with measuring devices 681.26 Weighing machines. Balances
.72	Double-chop harvesters	631.36	MACHINES, EQUIPMENT AND DEVICES FOR THE PREPARATION AND STORAGE OF AGRICULTURAL PRODUCTS. MACHINES AND EQUIPMENT FOR THE PREPARATION OF FEEDING STUFFS →664.7 Cereal processing. Flour and maize milling.
.722	Flail forage harvesters		
.73	Pick-up harvesters		
.8	Combined high-speed haymaking machines		
.354	Machines for cutting cereal crops. Binders. Combine harvesters		
Special auxiliary subdivisions for 631.354			
631.354.02	Machine components	.361	Machines and equipment for separating or removing parts of agricultural products. Threshers etc.
.022	Cutting mechanisms. Fingers. Finger bars. Knives. Knife sections	Special auxiliary subdivisions for 631.361	
.024	Binding devices. Packers. Needles. Knotters	631.361.02	Components of threshers etc.
.025	Binder conveyors. Canvas conveyors. Chain conveyors. Loaders. Grain collectors (bins) <i>For loading and conveying equipment</i> → 631.374	.022	Threshing devices, drums, concaves etc.
.026	Threshing mechanisms	.025	Cleaning devices, shakers etc.
.027	Cleaning units	.026	Straw trussers. Balers
.028	Crop lifters (fingers). Crop dividers. Sheaf counters. Devices for animal protection	.027	Straw conveyors
Principal divisions (continued)			
631.354.1	Binders	631.361.1	Hand tools for binding sheaves, cutting chaff, threshing
.2	Combine harvesters	.2	Threshers
.22	Without straw-chopping attachment	.22	Threshers for cereal crops harvested with a binder
.23	With straw-chopping attachment (chop threshers)	.23	Threshers for chopped cereal crops (chop threshing)
.3	Pickers. Headers. Machines for collecting the heads of clover crops etc.	.24	Machines for cutting and threshing cereal crops
.4	Sheaf binders	.3	Winnowers
.6	Machines for cutting cereal crops. Swathers (machines for cutting and delivering crops in a swath)	.4	Clover hullers and machines for removing the pods
.355	Maize harvesters	.42	Hullers
.1	Combine harvesters (shakers)	.43	Machines for removing the pods
.2	Reapers	.5	Machines for polishing and similar operations
.3	Picker-shellers	.6	Machines and equipment for several types of operation, e.g. threshers with straw shakers
.4	Shellers. Huskers	.7	Machines and equipment for preparing fruits
.5	Pickers	.72	For separating the flesh or coverings from kernels, for splitting and stoning fruits
.356	Machines and implements for row crops <i>Further particulars may be denoted by the .0 special auxiliaries listed under 631.3, e.g.</i>	.721	For removing useless stones, e.g. from cherries, plums
631.356.02	Components of row crop harvesters	.722	For removing useless flesh, e.g. from coffee beans
.2	Root harvesters	.723	For releasing oil-containing flesh, e.g. oil palm
.22	Root toppers (machines for topping beet etc.)	.724	For removing useless shells, e.g. from nuts
.23	Root crop lifters (lifting tools)	.725	For removing fibrous husks, e.g. from coconuts
.24	Machines to lift and windrow root crops	.726	For removing other coverings, e.g. from coffee and cocoa beans
.26	Complete harvesters	.73	For stoning fruits with small seeds, e.g. raisins
.262	Designed for topping followed by lifting	.74	For cracking fruits with hard shells, e.g. nuts
.264	Designed for pulling followed by topping	.75	For removing kernels from fruits with a soft shell and a soft kernel, for removing the pods from leguminous fruits
.27	Machines for collecting the crop	.8	Machines and equipment for cutting vegetables and fruit
.272	Top collectors	.81	Rotary discs carrying cutters
.274	Root collectors	.82	With cylindrical cutters, with rotary cutters
.4	Potato harvesters	.83	With oscillating or reciprocating knives
.41	Haulm strippers or devices for haulm removal	.84	For cutting into cubes
.43	Potato diggers. Potato ploughs		
.44	Potato elevator-diggers		

631.361.85	Machines for grinding, crushing and squeezing. Comminuting machines with devices for collecting juice →631.363.24 Oil-cake breakers	631.363.25	Machines suitable for comminuting various materials, e.g. hammer mills
.9	Machines for removing the coverings from vegetables and fruit	.26	Roller mills
.91	Peeling machines, machines for removing the skins from steamed potatoes, machines for removing the outside covering	.27	Food mixers (food mashers)
.93	Machines for preparing asparagus, for removing the fibrous parts from and for cutting green beans etc.	.28	Machines for pressing feeding stuffs, e.g. cubing machines
.94	Machines for removing stalks, for preparing fruits by removing unwanted growth, for stripping, for removing shoots from potatoes; for roasting, drying and blanching nuts and other fruits. Devices for marking, ripening and polishing crops	.282	With plungers
.95	Equipment for trimming cabbages	.283	With rollers
.362	Machinery, equipment and appliances for the cleaning and sorting of agricultural products. Containers, sieves etc. →621.928 Separating, sorting, sifting, screening equipment <i>Details of agricultural products may be denoted by colon combination with the subdivisions of 633/635</i>	.284	(Presses) with endless belts
.1	Simple devices. Shovels. Sieves. Tanks	.285	With augers
.3	Cleaning and sorting machines <i>The material processed may be denoted by colon combination with the subdivisions of 633/635</i>	.286	With an eccentric roller
.32	With flat sieves	.5	Equipment employing heat for the preparation of feeding stuffs →631.365 Equipment for the ventilation of agricultural products
.322	With reciprocating action	.52	Steamers
.323	With any form of oscillating movement	.521	Unit steamers
.33	With cylindrical and conical sieves	.522	Mobile steaming equipment
.332	Stationary	.7	Food-mixing equipment →621.929 Mixing, blending of solids or semi-solids. Amalgamation of solids with liquids
.333	Rotating	.364	Equipment for bundling, tying, packing etc. →631.353.3 Hay loaders. Hay sweeps with tying device. Pick-up balers
.334	With compound action	631.363.28	Machines for pressing feeding stuffs
.34	With indented cylinders, discs or belts. Graders	.1	Machines and equipment for bundling and tying
.35	With endless belts <i>The type of drive may be denoted by -8 special auxiliaries listed under 62</i>	.2	Machines and equipment for bagging
.36	With centrifugal action, with air streams, using a liquid, using magnetic, electrical etc. devices	.4	Machines and equipment for packing products in boxes, barrels etc.
.37	Devices for removing stones	.365	Equipment for the ventilation of agricultural products →631.363.5 Equipment employing heat for the preparation of feeding stuffs
.38	Auger-type sorters. Auger-type graders	66.047	Drying
.5	Machines for removing the outside covering of seed crops, for hulling, for picking and processing hops		Special auxiliary subdivisions for 631.365
.6	Machines for washing agricultural products. Machines with centrifugal action	631.365.036	Types of drier and ventilation equipment
.62	Machines for washing crops	.2	Contact driers
.63	Centrifugal machines	.3	Convection driers
.67	Machines for the removal of chemical residues, e.g. insecticides from fruits	.4	Radiation driers
.363	Machines and equipment for the preparation of feeding stuffs		Principal divisions (continued)
.1	Equipment for the preparation of fodder by fermentation, e.g. silos, fermentation equipment →631.243.2 Stores for hay and other plant fodder	631.365.2	Driers
.2	Machines and equipment for comminuting, crushing, squeezing etc.	.22	Grain driers
.21	Grinding mills	.23	Driers for forage crops
.22	Chaff cutters. Machines for chopping fodder crops	.29	Driers for other agricultural products
.23	Machines for slicing	.3	Ventilation equipment
.24	Oil-cake breakers	.32	Equipment for ventilating grain
		.33	Equipment for ventilating forage crops
		.34	Equipment for ventilating root crops
		.367	Equipment and gear for covering clamps, containers etc. for the storage of agricultural products →631.243 Stores for plant products. Granaries etc.
		631.37	MACHINES AND EQUIPMENT FOR PROVIDING DRIVING POWER AND TRACTION. AGRICULTURAL TRANSPORT EQUIPMENT
		.371	Machines and equipment for providing driving power for agriculture <i>Further particulars may be denoted by colon combination with the subdivisions of 621</i>
		.372	Powered agricultural vehicles. Tractors etc. <i>Further particulars may be denoted by colon combination with the subdivisions of 629</i>

631.373	Farm carts. Trailers <i>Further particulars may be denoted by colon combination with the subdivisions of 629</i>	631.415.25	Causes
		.26	Remedial measures
.374	Agricultural conveying equipment. Loading and unloading gear (other than structural fixtures) →631.353.4 Implements for making hay-cocks. Hay-cock loaders <i>Further particulars may be denoted by colon combination with the subdivisions of 621.86/.87</i>	.3	Alkaline soils. Alkalinity (over-liming)
		.35	Causes
		.36	Remedial measures
		.7	Wild plants as indicators of soil pH
		.8	pH range of crops, pH optima
631.4	SOIL SCIENCE. SOIL RESEARCH <i>Soils are considered here from the point of view of cultivation in general. Special properties and other particulars may be denoted by colon combination, e.g.</i> 631.4:55 Agricultural geology 631.43:535.6 Colour of soil →626.8 Agricultural hydraulics. Irrigation engineering. Land reclamation engineering. Land drainage engineering	.416	Inorganic chemistry of soil. Composition of soil <i>Further particulars may be denoted by colon combination, e.g.</i> 631.416:54 → 38 Salts
		.1	Nitrogen. Nitrogen compounds
		.11	Ammonia. Ammonium compounds
		.12	Nitrous acid and nitrites
		.13	Nitric acid and nitrates
		.14	Other nitrogen compounds
		.2	Phosphorus compounds
		.3	Other non-metals and their compounds 631.416.3 ≅ 546
		.4	Potassium compounds
		.5	Sodium compounds
		.7	Calcium compounds
		.8	Other metals and their compounds 631.416.8 ≅ 546
		.9	Trace elements (in general)
631.41	CHEMICAL AND PHYSICO-CHEMICAL PROPERTIES OF SOIL <i>Further particulars may be denoted by special auxiliaries, e.g.</i> 631.41:631.811 Nutrient content of soil	.417	Organic chemistry of soil
.412	Physicochemical properties of soil in general	.1	Carbon content
.413	Electrochemical properties of soil. Ion exchange	.2	Humus
.2	Fixation	.4	Carbon:nitrogen ratio
.3	Salt accumulation. Salt content	.7	Other organic compounds 631.417.7 ≅ 547
.4	Cation exchange	.8	Organometallic compounds. Chelates
	Special auxiliary subdivision for 631.413.4	.418	Soil solution
631.413.4.03	Cation exchange capacity	631.42	EXPERIMENTAL TECHNIQUES. SOIL ANALYSIS
	Principal divisions (continued)	.05	Sampling. Augers etc.
631.413.41	Exchangeable bases	.421	Experimental design. Field and pot experimentation. Statistical methods
.42	Exchangeable hydrogen	.1	Field experimentation
.5	Oxidation-reduction potential, rH	.2	Pot experimentation
.6	Corrosion	.3	Lysimeters and lysimetry
.414	Colloidal properties of soil	.422	Qualitative soil analysis 631.422 ≅ 631.423
	Special auxiliary subdivisions for 631.414	.423	Quantitative soil analysis
631.414.044	Flocculation →541.18.04 Chemical properties and constants. Coagulation. Flocculation. Separation of phases	.1	Total analysis
		.2	Moisture content
.045	Dispersion →541.18.05 Preparation. Dispersion. Peptization. Emulsification — Colloid chemistry	.3	Inorganic analysis
		.4	Organic analysis
		.5	Soluble salts
		.6	Composition of soil air
		.7	Determination of exchangeable bases
	Principal divisions (continued)	.425	Physical analysis of soil 631.425 ≅ 631.43
631.414.2	Colloidal state. Hardening. Loosening. Impenetrable layers (hardpan) <i>Further particulars may be denoted by colon combination, e.g.</i> 631.414.2:549 Clay minerals	.2	Determination of soil moisture
.3	Absorption. Adsorption →631.432.24 Water-holding capacity. Moisture equivalent	.3	Determination of soil air
.415	Soil reaction. Soil acidity. pH →541.132.3 Hydrogen ion concentration (pH)	.4	Determination of soil structure
.1	Soil acidity. pH	.5	Mechanical analysis of soil
.12	Buffering capacity	.6	Determination of soil temperature
.2	Acid soils	.7	Determination of electrical properties
		.427	Biological examination of soil
		.1	Macrobiological analysis
		.12	By examining the vegetation. Indicator plants
		.2	Microbiological analysis
		.22	Examination of the microflora